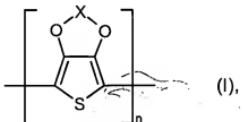


WHAT IS CLAIMED IS:

1. A dispersion comprising polyanions and cationic 3,4-polyalkylenedioxythiophenes, wherein at least about 90% of the particles
5 of the dispersion are less than about 50 nm.
2. The dispersion according to Claim 1, wherein at least about 90% of the particles are less than about 40 nm.
3. The dispersion according to Claim 1, wherein the resistivity of the coatings produced therefrom is at least about 5000 Ωcm .
- 10 4. The dispersion according to Claim 1, wherein the 3,4-poly-alkylenedioxythiophenes are compounds of the formula (I)



wherein

- 15 n is an integer from 3 to 100, preferably from 4 to 15, and
- X is $-\text{CH}_2-\text{x}-\text{CR}^1\text{R}^2-\text{CH}_2-\text{y}-$, where
R¹ and R², independently of one another, are H, an optionally substituted alkyl radical having from 1 to 20 carbon atoms, an aryl radical having from 6 to 14 carbon atoms or $-\text{CH}_2-\text{OR}^3$, where R³ is H, alkyl or
20 $-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{SO}_3\text{H}$, and
- x and y are each, independently of one another, an integer from 0 to 9.
5. The dispersion according to Claim 1, wherein the dispersion is a 3,4-polyethylenedioxythiophene/polystyrene sulfonate dispersion.
- 25 6. The dispersion according to Claim 1, wherein the cationic 3,4-polyalkylenedioxythiophene to polyanion have a ratio ranging from between about 1:8 and about 1:25.

7. An electroluminescent arrangement containing a hole-injecting layer, wherein the hole-injecting layer has been produced from a dispersion according to Claim 1.
8. The electroluminescent arrangement according to Claim 7,
5 wherein polyfluorenes and/or poly-para-phenylenevinylanes are used as light-emitting layer.

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